

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/768,415	01/30/2004	Philip Emery	7015	6942	
Gauthier & Cor	7590 08/24/200 nnors, LLP	EXAMINER			
Suite 3300			SHEWAREGE	SHEWAREGED, BETELHEM	
225 Franklin St Boston, MA 02		•	ART UNIT	PAPER NUMBER	
			1774		

			MAIL DATE	DELIVERY MODE	
•			08/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	·				
	Application No.	Applicant(s)			
Office Andrew Occurrence	10/768,415	EMERY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Betelhem Shewareged	1774			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	,				
1)⊠ Responsive to communication(s) filed on <u>07 s</u>	lune 2007.				
· · · ·	s action is non-final.				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>25,27,28,30,31 and 33-46</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>25,27,28,30,31 and 33-46</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119(a)	-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea					
* See the attached detailed Office action for a list of the certified copies not received.					
		•			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate atent Application (PTO-152)			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	6) Other:	акелк лурпканон (FTO-102)			

Application/Control Number: 10/768,415

Art Unit: 1774

DETAILED ACTION

Page 2

1. Applicant's response filed on 06/07/2007 has been fully considered.

2. Claims 1-24, 26, 29 and 32 are canceled, claim 25 is amended, and thus claims 25, 27, 28, 30, 31 and 33-46 are pending.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 25, 27, 28, 30, 31, 33-39 and 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. (US 5,190,609) in view of Shih (US 5824,398), Ast (US 6,248,427 B1) and Hughen et al. (US 5,747,192).
- 5. Lin discloses a heat shrinkable label comprising a backing sheet (col. 2, line 42), a first pressure sensitive adhesive (PSA) on the backing layer (col. 2, line 56), a first shrinkable layer on the first PSA (col. 2, line 44), graphics on the first shrinkable layer (col. 3, line 23), a second pressure sensitive adhesive (PSA) on the graphics (col. 3, line 32), and a second shrinkable layer on the second PSA (col. 2, line 44). The first and second shrinkable layers are made of polypropylene (col. 2, line 45). The thickness of the shrinkable layer is 1.25 mils (col. 4, line 63).

Application/Control Number: 10/768,415

Art Unit: 1774

6. With respect to the claimed stiffness value, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. *In re Aller*, 105 USPQ 233. One of ordinary skill in the art would have been motivated to adjust the stiffness value in order to optimize the integrity of the film. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPQ 215.

Page 3

- 7. Lin does not teach the claimed onset shrinkage temperature value. However, Shih teaches a shrink film having an onset shrink temperature of 64 degree C or less (Examples and Table II). Lin and Shih are analogous art because they are from the same field of endeavor that is the shrink film art. At the time of the invention it would have been obvious to a person of ordinary skill in the art to combine the teaching of Shih with the invention of Lin, and the motivation would be, as Shih suggests, to provide a shrink film having heat resistance, stress crack resistance and excellent melt flowability (col. 7, lines 24-26).
- 8. Lin does not teach the use of polystyrene as the shrinkable layers. However, Ast teaches adhesive label comprising a shrinkable cover foil that can be made of polypropylene, polystyrene, polyethylene or polyester (col. 3, lines 37-42).
- 9. Lin and Ast are analogous art because they are from the same field of endeavor that is the heat shrinkable label art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use polystyrene to make the shrinkable layers of Lin since the examiner takes Official Notice of the equivalence of polyethylene

Art Unit: 1774

and polystyrene for there use in the heat shrinkable art and the selection of any of there known equivalents to make the shrinkable layers would be within the level of ordinary skill in the art.

- 10. With respect to the shrink and growth direction of the label, it is well known in the shrinkable label art for the label to be applied on a battery to shrink up to 60% in the direction normal to the axis of the battery, and to shrink –2 to +5% in the axial direction, wherein negative shrinkage means elongation. Such characteristics are well known in the art before the claimed invention (see col. 5, lines 19-36 of Hughen).
- 11. Claims 25, 27, 28, 30, 31, 33-43, 45 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ast (US 6,248,427 B1) in view of Shih (US 5824,398) and Hughen et al. (US 5,747,192).
- 12. Ast discloses an adhesive shrinkable label comprising a carrier (col. 4, line 17), an adhesive on the carrier (col. 4, line 15), a carrier material on the adhesive (col. 4, lines 7-13), wherein the carrier material comprises metallic layer and non-metallic layer, a laminating adhesive on the carrier material (col. 5, line 52), imprints on the laminating adhesive, and a shrinkable cover foil on the imprint (col. 3, line 39). Ast does not teach the claimed onset shrinkage temperature value. However, Shih teaches a shrink film having an onset shrink temperature of 64 degree C or less (Examples and Table II). Ast and Shih are analogous art because they are from the same field of endeavor that is the shrink film art. At the time of the invention it would have been obvious to a person of ordinary skill in the art to combine the teaching of Shih with the invention of Ast, and the

Art Unit: 1774

motivation would be, as Shih suggests, to provide a shrink film having heat resistance, stress crack resistance and excellent melt flowability (col. 7, lines 24-26).

Page 5

- 13. With respect to the claimed stiffness value, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. *In re Aller*, 105 USPQ 233. One of ordinary skill in the art would have been motivated to adjust the stiffness value in order to optimize the integrity of the film. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPQ 215.
- 14. Ast teaches the shrinkable cover foil has a thickness of 20-70 micrometer (0.02-0.07mm) (col. 3, line 43 of Ast). Ast discloses that the shrinkable foil can carry additional layers on top and bottom side (col. 3, line 63). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to add a transparent protective layer on the external side of the shrinkable cover foil so as to protect the foil during manufacturing, packaging, and/or transportation because adding a protective layer is on a laminate and/or a label is well known in the laminate and/or label art.
- 15. With respect to the shrink and growth direction of the label, it is well known in the shrinkable label art for the label to be applied on a battery to shrink up to 60% in the direction normal to the axis of the battery, and to shrink –2 to +5% in the axial direction, wherein negative shrinkage means elongation. Such characteristics are well known in the art before the claimed invention (see col. 5, lines 19-36 of Hughen).

Art Unit: 1774

Response to Arguments

Applicant's arguments with respect to claims 25, 27, 28, 30, 31 and 33-46 have 16. been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 571-272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.
- 18. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on 571-272-1398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 19. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BS August 19, 2007.

PRIMARY EXAMINER